

HHH	HHH	LLL	DDDDDDDDDDDD
HHH	HHH	LLL	DDDDDDDDDDDD
HHH	HHH	LLL	DDDDDDDDDDDD
HHH	HHH	LLL	DDDD
HHH	HHH	LLL	DDD
HHH	HHH	LLL	DDD
HHH	HHH	LLL	DDD
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HHH	HHH	LLL	DDD
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HHH	HHH	LLL	DDD
HHH	HHH	LLL	DDD
HHH	HHH	LLL	DDD
HHH	HHH	LLL	DDD
HHH	HHH	LLL	DDD
HHH	HHH	LLL	DDD
HHH	HHH	LLL	DDD
HHH	HHH	LLL	DDD
HHH	HHH	LLL	DDD
HHH	HHH	LLL	DDDDDDDDDDDD
HHH	HHH	LLL	DDDDDDDDDDDD
HHH	HHH	LLL	DDDDDDDDDDDD

FILEID**HLDDATA

E 1

HH HH LL DDDDDDDDD DDDDDDDDD AAAAAAA TTTTTTTTTT AAAAAAA
HH HH LL DDDDDDDDD DDDDDDDDD AAAAAAA TTTTTTTTTT AAAAAAA
HH HH LL DD DD DD DD AA AA AA TT AA AA
HH HH LL DD DD DD DD AA AA AA TT AA AA
HH HH LL DD DD DD DD AA AA AA TT AA AA
HH HH LL DD DD DD DD AA AA AA TT AA AA
HHHHHHHHHHHHH LL DD DD DD DD AA AA AA TT AA AA
HHHHHHHHHHHHH LL DD DD DD DD AA AA AA TT AA AA
HH HH LL DD DD DD DD AAAAAAAA TT AAAAAAAA
HH HH LL DD DD DD DD AAAAAAAA TT AAAAAAAA
HH HH LL DD DD DD DD AA AA AA TT AA AA
HH HH LL DD DD DD DD AA AA AA TT AA AA
HH HH LLL LLL DDDDDDDDD DDDDDDDDD AA AA AA TT AA AA
HH HH LLL LLL DDDDDDDDD DDDDDDDDD AA AA AA TT AA AA

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LL IIIII SSSSSSS
LL II SSSSSSS
LL II SS
LL II SS
LL II SSSSS
LL II SSSSS
LL II SS
LL II SS
LL II SS
LL LLL LLL LLL IIIII SSSSSSS
LL LLL LLL LLL IIIII SSSSSSS

H V

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0000 24 *
0000 25 *
0000 26 *****
0000 27 *
0000 28 *
0000 29 **
0000 30 :FACILITY: DECNET HOST LOADER (HLD)
0000 31
0000 32 :ABSTRACT:
0000 33
0000 34 : HLD IS A COMPONENT OF DECNET-VAX. IT PROVIDES ACCESS TO
0000 35 : RSX11S TASK IMAGES STORED ON A VAX/VMS SYSTEM.
0000 36
0000 37 :ENVIRONMENT:
0000 38
0000 39 : THE HLD IMAGE EXECUTES IN THE CONTEXT OF A PROCESS CREATED BY
0000 40 : NETACP. IT RUNS IN USER MODE AND REQUIRES NETWORK PRIVILEGE.
0000 41
0000 42 :AUTHOR: SCOTT G. DAVIS. CREATION DATE: 11-MAY-79
0000 43
0000 44 :MODIFICATIONS:
0000 45
0000 46 :--
0000 47
0000 48 :INCLUDE FILES:
0000 49
0000 50
0000 51
0000 52 :MACROS:
0000 53
0000 54 :NONE
0000 55
0000 56 :.PSECT HLD\$PURE NOSHR,NOEXE,RD,NOWRT,LONG
0000 57 :

3A 54 45 4E 5F 00000008'010E0000'
45 4E 24 53 59 53 00000015'010E0000'

0000000A 0000 58 ; EQUATED SYMBOLS:
 00000000 0000 59 ;
 00000000 0000 60 HLD_DISK_SIZE = 512 ;
 00000000 0000 61 ;
 00000000 0000 62 HLDST_TASK == 0 ; OPDATA offset to task name
 00000000 0000 63 HLD\$W_XFR_SIZE == 0 ; OPTDATA offset to transfer size
 00000002 0000 64 HLD\$B_NLUNS == 2 ; OPTDATA offset to number of luns to fix
 00000004 0000 65 HLD\$W_PART_ADDR == 4 ; OPDATA OFFSET TO PARTITION ADDRESS
 00000006 0000 66 HLD\$W_PART_SIZE == 6 ; OPDATA OFFSET TO PARTITION SIZE
 00000008 0000 67 HLD\$B_LUN_FLAG == 8 ; OPDATA OFFSET TO LUN-FIXING FLAG
 00000009 0000 68 HLD\$B_REQUEST == 9 ; OPDATA OFFSET TO REQUEST TYPE
 0000000A 0000 69 HLD\$L_OVL_VBN == 10 ; OVERLAY REQUEST VBN
 0000000A 0000 70 ;
 0000000A 0000 71 ; GLOBAL STORAGE:
 0000000A 0000 72 ;
 0000000A 0000 73 ; DEVICE NAME AND LOGICAL NAME DESCRIPTOR BLOCKS WITH TEXT
 0000000A 0000 74 ;
 0000000A 0000 75 ;
 0000000A 0000 76 HLD\$GQ_LNKNAME:; : DEVICE NAME DESCRIPTOR BLOCK
 0000000A 0000 77 .ASCID /_NET:/ : FOR THE LINK
 0000000A 0000 78 HLD\$GQ_SYSNAME:; : LOGICAL NAME DESCRIPTOR BLOCK
 0000000A 0000 79 .ASCID /SYSSNET/ : FOR SYSSNET
 0000000A 001B 80 .PSECT HLD\$IMPURE NOSHR,NOEXE,RD,WRT,LONG
 0000000A 001C 81 .ADDRESS HLD\$GQ_NCBDESC:: : NCB DESCRIPTOR
 00000008 0000 82 .BLKQ 1 : NCB DESCRIPTOR
 00000048 0008 83 HLD\$GT_NCBDESC:: : NCB BUFFER
 0000004C 0048 84 HLD\$GT_NCBBUF:: .BLKB 64 : NCB BUFFER
 0000004C 0048 85 HLD\$GQ_NODEDESC:: : NODE NAME DESCRIPTOR
 00000008 004C 86 .BLKL 1 : NODE NAME DESCRIPTOR
 00000058 0050 87 HLD\$GQ_LNKIOSB:: : HLD\$GT_NCBBUF : NODE IS IN BUFFER
 000000C8 0058 88 HLD\$GQ_PRTBUF:: : LOGICAL LINK IOSB
 000002D0 005C 89 .LONG 200 : PRINT BUFFER DESCRIPTOR
 00000062 0060 90 HLD\$GW_LNKCHN:: : ADDRESS HLD_AB_PRTBUF : LOGICAL LINK CHANNEL
 00000062 0062 91 HLD\$GW_IOFUNC:: : WORD IO\$ ACCESS : HOLDS I/O FUNCTION - START WITH CONFIRM
 00000064 0064 92 HLD\$GW_SAVEFUNC:: : WORD IO\$_WRITEVBLK ; HOLD NETWORK READ/WRITE FUNCTION
 00000066 0066 93 HLD\$GQ_IOROUT1:: :
 00000000 0066 94 .ADDRESS HLD\$DISK_READ : ADDRESS OF I/O ROUTINE 1
 00000000 006A 95 HLD\$GQ_IOROUT2:: :
 00000000 006E 96 .ADDRESS HLD\$NET_IO : ADDRESS OF I/O ROUTINE 2
 00000076 0072 97 HLD\$GQ_IOPARAM1:: : .LONG 0 : HOLDS I/O P1
 0000007A 0076 98 HLD\$GQ_IOPARAM2:: : .BLKL 1 : HOLDS I/O P2
 0000007C 007A 99 HLD\$GT_OPER:: : .BLKA 1 : HOLDS ADDRESS OF REQUEST TYPE
 0200 007C 100 HLD\$GW_PRTLEN:: : .BLKW 1 : LENGTH OF PRINT BUFFER
 00 007E 101 HLD\$GW_IOLEN:: : .WORD 512 : Length of non-overlay block transfer
 00 007F 102 HLD\$GB_ERRORFLG:: : .BYTE 0 : NUMBER OF ERROR MESSAGE, IF ANY
 00 0080 103 HLD\$GB_MAPFLAG:: : .BYTE 0 : TASK FLAG - 0=>MAP (DEFAULT)
 01 0080 104 : 1=>UNM
 00 0081 105 HLD\$GB_GPFLAG:: : .BYTE 1 : General purpose task flag - 1=>GP
 00 0082 106 HLD\$GB_LUNFLAG:: : .BYTE 0 : Lun-fixing flag
 06 0082 107 HLD\$AT_TSKBUF:: : .BYTE 6 : FIXED LENGTH OF TASK NAME
 00000089 0083 108 .BLKB 6 : FOR HOLDING COUNTED DECODED TASK NAME
 00000089 0089 109 ;
 00000089 0089 110 ;
 00000089 0089 111 .ALIGN LONG : REQUIRED FOR FABS AND RABS
 008C 112 ;
 008C 113 HLD\$TSKFAB:: : FAB FOR TASK FILE

```

008C 114      $FAB    DNM=<.TSK> -          ; DEFAULT FILE TYPE
008C 115      $FAB    FAC=<BIO,GET,PUT> ; BLOCK I/O, READ, WRITE
00DC 116      $FAB    DNM=<.TSK> -          ; RAB FOR TASK FILE
00DC 117 HLD$TSKRAB:: $RAB    FAB=HLD$TSKFAB - ; START WITH LABEL BLOCK
00DC 118      $RAB    BKT=1 -                ; BLOCK I/O
00DC 119      $RAB    ROP=BIO -              ; BUFFER
00DC 120      $RAB    UBF=HLD$AB_BUFFER - ; BUFFER
00DC 121      $RAB    USZ=HLD_DISK_SIZE ; BLOCK SIZE
0120 122      $RAB
0120 123      $RAB
000000B8 0120 124 HLD$GL_TSKFNA == HLD$TSKFAB+FAB$L_FNA ; FOR STUFFING FILESPEC ADDRESS
000000C0 0120 125 HLD$GL_TSKFNS == HLD$TSKFAB+FAB$B_FNS ; FOR STUFFING FILESPEC SIZE
00000114 0120 126 HLD$GL_TSKBKT == HLD$TSKRAB+RAB$L_BKT ; FOR STUFFING BLOCK NUMBER
0120 127      $RAB
0120 128      .ALIGN LONG
0120 129      $RAB
0120 130 HLD$PRTFAB:: $FAB    FAC=PUT-          ; FILE ACCESS BLOCK
0120 131      $FAB    RAT=CR-
0120 132      $FAB    FNM=<SYSSOUTPUT>
0120 133      $RAB    FAB=HLD$PRTFAB- ; RECORD ACCESS BLOCK
0170 134 HLD$PRTRAB:: $RAB    RBF=HLD_AB_PRTBUF- ; T.B.S. DYNAMICALLY
0170 135      $RAB    RSZ=0
0170 136      $RAB
0170 137      $RAB
01B4 138      $RAB
01B4 139      .ALIGN LONG
01B4 140      $RAB
01B4 141 HLD$DATFAB:: $FAB    FAC=GET-          ; FAB FOR TASK HLD.DAT TASK FILE
01B4 142      $FAB    FNM=<SYSSSYSTEM:HLD.DAT> - ;
01B4 143      $FAB    FOP=SQO
01B4 144      $RAB
0204 145      $RAB
0204 146 HLD$DATRAB:: $RAB    FAB=HLD$DATFAB- ; RAB FOR HLD.DAT
0204 147      $RAB    UBF=HLD_AB_NAMEBUF -
0204 148      $RAB    USZ=200
0204 149      $RAB
0248 150      $RAB
00000226 0248 151 HLD$GW_DATRSZ == HLD$DATRAB+RAB$W_RSZ ; ADDRESS OF RECORD LENGTH
0000022C 0248 152 HLD$GL_DATRBF == HLD$DATRAB+RAB$L_RBF ; ADDRESS OF RECORD POINTER
0000024C 0248 153 HLD$GL_RECEND:: .BLKL 1 ; POINTER BEYOND END OF RECORD
024C 154      $RAB
000002D0 024C 155 HLD_AB_NAMEBUF: .BLKB 132 ; FOR MATCHING TASK NAME, ETC.
02D0 156 HLD_AB_PRTBUF: .BLKB 200 ; PRINT BUFFER
00000398 02D0 157 .BLKB 200 ; SAVE SOME SPACE
00000598 0398 158 HLD$AB_BUFFER:: .BLKB HLD_DISK_SIZE ; I/O BUFFER
0598 159      $RAB
0598 160      .END

```

\$\$TAB	= 00000204	R	02
\$\$TABEND	= 00000248	R	02
\$\$TMP	= 00000000		
\$\$TMPX	= 0000000E	R	04
\$\$TMPX1	= 00000012		
FABSB_DNS	= 00000035		
FABSB_FNS	= 00000034		
FABSC_BID	= 00000003		
FABSC_BLN	= 00000050		
FABSC_SEQ	= 00000000		
FABSC_VAR	= 00000002		
FABSL_ALQ	= 00000010		
FABSL_DNA	= 00000030		
FABSL_FNA	= 0000002C		
FABSL_FOP	= 00000004		
FABSV_BIO	= 00000005		
FABSV_CHAN_MODE	= 00000002		
FABSV_CR	= 00000001		
FABSV_FILE_MODE	= 00000004		
FABSV_GET	= 00000001		
FABSV_LNM_MODE	= 00000000		
FABSV_PUT	= 00000000		
FABSV_SQ0	= 00000006		
FABSW_GBC	= 00000048		
HLDSAB_BUFFER	00000398	RG	02
HLDSAT_TSKBUF	00000082	RG	02
HLDSB_CUN_FLAG	= 00000008	G	
HLDSB_NLUNS	= 00000002	G	
HLDSB_REQUEST	= 00000009	G	
HLDSDATFAB	000001B4	RG	02
HLDSDATRAB	00000204	RG	02
HLDSDISK_READ	***** X		02
HLDSGB_ERRORFLG	0000007E	RG	02
HLDSGB_GPFLAG	00000080	RG	02
HLDSGB_LUNFLAG	00000081	RG	02
HLDSGB_MAPFLAG	0000007F	RG	02
HLDSGB_TSKFNS	= 000000C0	RG	02
HLDSGL_DATRBF	= 0000022C	RG	02
HLDSGL_IOPARAM1	0000006E	RG	02
HLDSGL_IOPARAM2	00000072	RG	02
HLDSGL_IROUT_1	00000066	RG	02
HLDSGL_IROUT_2	0000006A	RG	02
HLDSGL_RECEND	00000248	RG	02
HLDSGL_TSKBKT	= 00000114	RG	02
HLDSGL_TSKFNA	= 000000B8	RG	02
HLDSGQ_LNKIOSB	00000050	RG	02
HLDSGQ_LNKNAM	00000000	RG	01
HLDSGQ_NCBDESC	00000000	RG	02
HLDSGQ_NODEDESC	00000048	RG	02
HLDSGQ_PRTBUF	00000058	RG	02
HLDSGQ_SYSNAM	0000000D	RG	01
HLDSGT_NCBBUF	00000008	RG	02
HLDSGT_OPER	00000076	RG	02
HLDSGW_DATRSZ	= 00000226	RG	02
HLDSGW_IOFUNC	00000062	RG	02
HLDSGW_IOLEN	0000007C	RG	02
HLDSGW_LNKCHN	00000060	RG	02

HLDSGW_PRTLEN	0000007A	RG	02
HLDSGW_SAVEFUNC	00000064	RG	02
HLDSL_DVL_VBN	= 0000000A	G	
HLDSNET_IO	***** X		02
HLDSPRTFAB	00000120	RG	02
HLDSPRTRAB	00000170	RG	02
HLDSTSFKAB	0000008C	RG	02
HLDSTSkrab	000000DC	RG	02
HLDST_TASK	= 00000000	G	
HLDSW_PART_ADDR	= 00000004	G	
HLDSW_PART_SIZE	= 00000006	G	
HLDSW_XFR_SIZE	= 00000000	G	
HLD_AB_NAMEBUF	0000024C	R	02
HLD_AB_PRTBUF	000002D0	R	02
HLD_DISK_SIZE	= 00000200		
IOS_ACCESS	***** X		02
IOS_WRITEVBLK	***** X		02
RABSB_RAC	= 0000001E		
RABSC_BID	= 00000001		
RABSC_BLN	= 00000044		
RABSC_SEQ	= 00000000		
RABSL_BKT	= 00000038		
RABSL_CTX	= 00000018		
RABSL_RBF	= 00000028		
RABSL_ROP	= 00000004		
RABSV_BIO	= 0000000B		
RABSW_RSZ	= 00000022		

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE
. ABS .	000000000	(0.)	00 (0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT
HLD\$PURE	00000010	(28.)	01 (1.)	NOPIC	USR	CON	REL	LCL	NOSHR	NOEXE	RD	NOVEC LONG
HLD\$IMPURE	00000598	(1432.)	02 (2.)	NOPIC	USR	CON	REL	LCL	NOSHR	NOEXE	RD	WRT NOVEC LONG
\$ABSS	00000000	(0.)	03 (3.)	NOPIC	USR	CON	ABS	LCL	NOSHR	EXE	RD	WRT NOVEC BYTE
\$RMSNAM	00000020	(32.)	04 (4.)	NOPIC	USR	CON	REL	LCL	NOSHR	EXE	RD	WRT NOVEC BYTE

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	35	00:00:00.08	00:00:01.23
Command processing	132	00:00:00.60	00:00:03.67
Pass 1	193	00:00:04.66	00:00:14.55
Symbol table sort	0	00:00:00.37	00:00:00.64
Pass 2	55	00:00:00.89	00:00:03.30
Symbol table output	12	00:00:00.08	00:00:00.20
Psect synopsis output	4	00:00:00.03	00:00:00.05
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	434	00:00:06.71	00:00:23.64

The working set limit was 900 pages.

20804 bytes (41 pages) of virtual memory were used to buffer the intermediate code.

There were 20 pages of symbol table space allocated to hold 354 non-local and 0 local symbols.

160 source lines were read in Pass 1, producing 20 object records in Pass 2.

17 pages of virtual memory were used to define 12 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name	Macros defined
\$255\$DUA28:[HLD.OBJ]HLD.MLB;1	0
\$255\$DUA28:[SYSLIB]STARLET.MLB;2	9
TOTALS (all libraries)	9

499 GETS were required to define 9 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:HLDDATA/OBJ=OBJ\$:HLDDATA MSRC\$:HLDDATA/UPDATE=(ENHS:HLDDATA)+LIB\$:HLD/LIB

0186 AH-BT13A-SE
VAX/VMS V4.0

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